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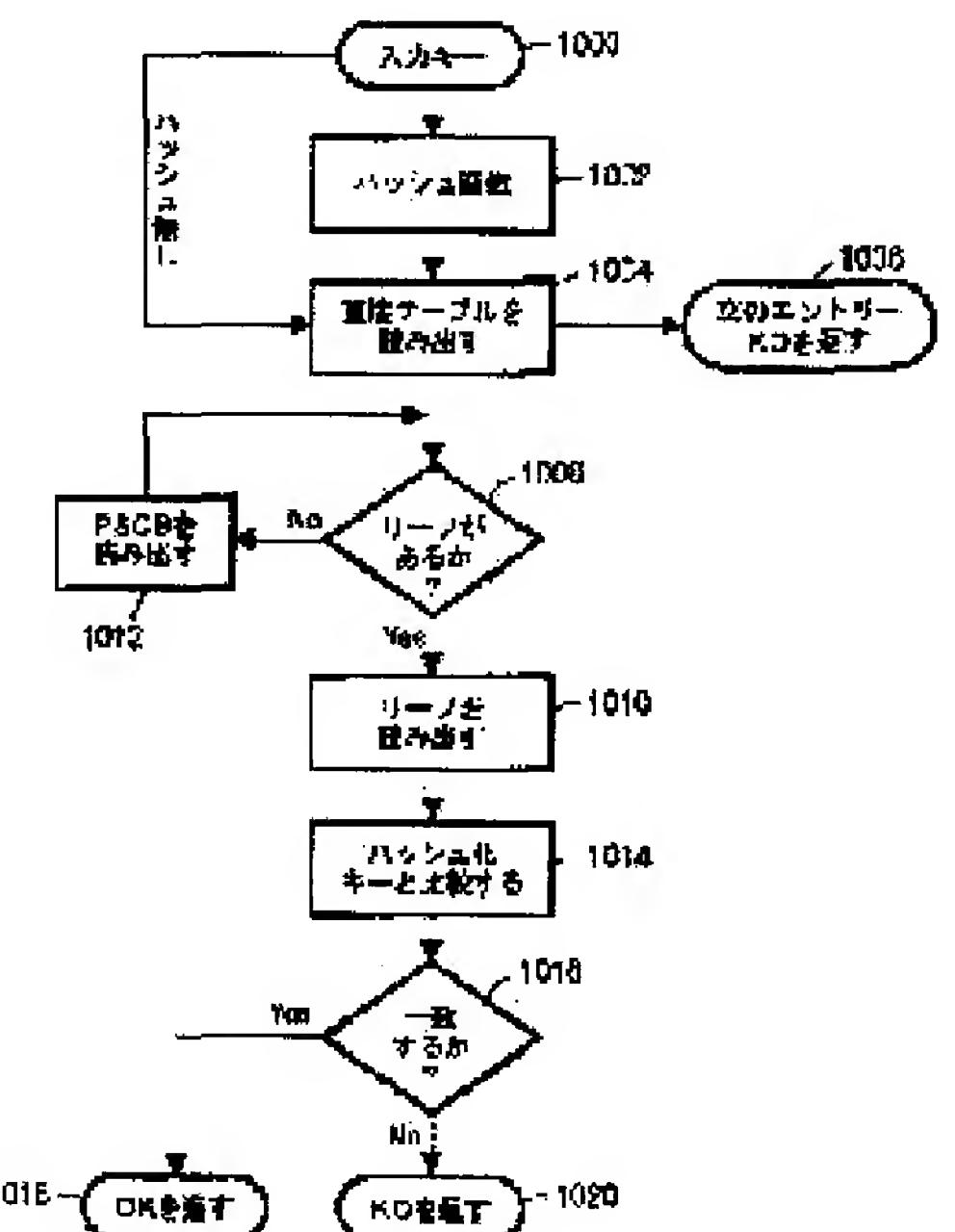
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(54) PACKAGING OF FULL MATCHING SEARCH ALGORITHM FOR NETWORK PROCESSOR

(57) Abstract:

PROBLEM TO BE SOLVED: To provide novel data structure, method and device for finding out full matching(FM) between a search pattern and a pattern stored in the leaf of a search tree.

SOLUTION: A key is inputted, a hash function is executed to a key, a direct table(DT) is accessed, and walk-through of the tree is performed until reaching the leaf through a pattern search control block(PSCB). Both the key and correspondent information required for retrieval are stored in a Patricia tree structure and the hash function performs mapping of n->n from the bit of the key to the bit of a hashed key.



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